ORIGINAL

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

In re Applications of	)	MM Docket No. 92-64
WIND 'N SEA FM LIMITED PARTNERSHIP	)	File No. BPH-901224ME
WEBB BROADCASTING, INC.	)	File No. BPH-901224MF
ARIS MARDIROSSIAN	)	File No. BPH-901224MI
EQUAL TIME BROADCASTING CORP.	)	File No. BPH-901224MK
J.H. COMMUNICATIONS	)	File No. BPH-901226MB
For Construction Permit for a New FM Station on Channel 295A (106.9 MHz) in Ocean City, MD	)	

To: The Honorable Edward Luton
Administrative Law Judge

RECEIVED
MAY 12 1992
Federal Communications Commission
Office of the Secretary

PETITION FOR LEAVE TO AMEND AND AMENDMENT

WIND 'N SEA FM LIMITED PARTNERSHIP ("Partnership"), pursuant to Section 73.3522(b)(2) of the Commission's Rules, hereby petitions for leave to amend its application. This Amendment addresses matters first raised in the Hearing Designation Order, DA 92-358, released April 13, 1992 (the "HDO"), specifically the short spacing and environmental impact issues. This Amendment fully addresses both the short spacing and environmental assessment issues. Partnership's amendment should be accepted, pursuant to Section 73.3522(b)(2) of the Commission's Rules.

Specifically, paragraph numbers 6 and 18 of the HDO required Partnership to address and cure a short spacing matter. Attached hereto is an engineering statement which includes, inter alia, Partnership's actions to address this matter.

No. of Copies rec'd 0+6
List A B C D E

In addition, paragraph numbers 7 and 19 of the HDO directed Partnership to set forth its plan for protecting workers on its tower from RF radiation exposure. Attached hereto, as part of its engineering statement, Partnership has included its environmental assessment.

Also, in accordance with paragraph number 7 of the HDO, Partnership has provided a copy of this Petition for Leave to Amend and Amendment to the Chief of the Audio Services Division.

Since these matters - short spacing and environmental assessment - were first raised in the HDO, and because it has timely filed this Amendment which addresses those matters, this Amendment should be accepted as a matter of right.

WHEREFORE, in light of the foregoing, Partnership respectfully requests that the Presiding Judge grant the Petition for Leave to Amend and accept this Amendment to Partnership's Application.

Respectfully submitted,

WIND 'N SEA FM
LIMITED PARTNERSHIP

By: _____

J. Jeffrey Craven
Stephen Diaz Gavin
BESOZZI & GAVIN
1901 L Street, NW
Suite 200
Washington, D.C. 20036
(202) 293-7405

Its Attorneys

Dated: May 12, 1992
/0653/Amend.pet

AMENDMENT TO THE APPLICATION OF

WIND 'N SEA FM LIMITED PARTNERSHIP

FOR CH. 295A, OCEAN CITY, MARYLAND

Section V-B - FM BROADCAST ENGINEERING DATA	FOR COMMISSION USE ONLY File No. _____ ASB Referral Date _____ Referred by _____

Name of Applicant

Wind n'Sea FM Limited Partnership

Call letters *(if issued)*	Is this application being filed in response to a window? ■ Yes ☐ No
NEW	If Yes, specify closing date: _____

Purpose of Application: *(check appropriate box(es))*

- ■ Construct a new (main) facility
- ☐ Construct a new auxiliary facility
- ☐ Modify existing construction permit for main facility
- ☐ Modify existing construction permit for auxiliary facility
- ☐ Modify licensed main facility
- ☐ Modify licensed auxiliary facility

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- ☐ Antenna supporting-structure height
- ☐ Effective radiated power
- ☐ Antenna height above average terrain
- ☐ Frequency
- ■ Antenna location
- ☐ Class
- ☐ Main Studio location
- ■ Other *(Summarize briefly)*

File Number(s) 901224ME

Install D/A to conform MM 92-44 (6)

1. Allocation:

Channel No.	Principal community to be served:		
	City	County	State
295A	Ocean City	Worcester	MD

Class *(check only one box below)*

■ A ☐ B1 ☐ B ☐ C3 ☐ C2 ☐ C1 ☐ C

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

NE Corner MD 589 & MD 90 Cty. Worcester MD.

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	38° 22' 52" N	Longitude	75° 10' 32" W

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ■ Yes ☐ No

If Yes, give call letter(s) or file number(s) or both. **Emergency Management & EMS Stations**

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any. **Existing Tower. No height change proposed.**

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates? ☐ Yes ■ No
If Yes, list old coordinates.

Latitude ° ' "	Longitude ° ' "

5. Has the FAA been notified of the proposed construction? ■ Yes ☐ No
If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available. Exhibit No. A

Date 1/13/91 Office where filed 90-AEA-1294-OE JFK A/P

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of nearest runway.

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	Ocean City	7.8 km	145 T.
(b)			

7. (a) Elevation: *(to the nearest meter)*

(1) of site above mean sea level: 6.1m meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 121.9m meters

(3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] 128.0m meters

(b) Height of radiation center: *(to the nearest meter)* H = Horizontal; V = Vertical

(1) above ground 96.7m meters (H
96.7m meters (V

(2) above mean sea level [(aX1) + (bX1)] 102.8m meters (H
102.8m meters (V

(3) above average terrain 100.0m meters (H
100.0m meters (V

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator. Exhibit No. B

9. Effective Radiated Power:
(a) ERP in the horizontal plane 3.0 kw (H=) 3.0 kw (V=)

(b) Is beam tilt proposed? ☐ Yes ■ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field. Exhibit No. DNA

____ kw (H=) ____ kw (V=)

*Polarization

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 3)

10. Is a directional antenna proposed? ■ Yes ☐ N

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of the relative field. Ex Eng o.

11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.315(a) and (b)? ■ Yes ☐ N

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 3.16 mV/m service. Ex. DNA lo.

12. Will the main studio be within the protected 3.16 mV/m field strength contour of this proposal? ■ Yes ☐ N

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125. Ex DNA No.

13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207? ☐ Yes ■ N

(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply? ■ Yes ☐ N

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers. E Eng No.

(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose. Ex Eng No.

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following: E Eng No.

(1) Protected and interfering contours, in all directions (360°), for the proposed operation.
(2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.
(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
(5) The official title(s) of the map(s) used in the exhibits(s).

14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast *(except citizens band or amateur)* radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference? ■ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. *(See 47 C.F.R. Sections 73.315(b), 73.316(e) and 73.318.)* E Eng No.

15. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V. The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

[Eng-G]

16. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

[Eng-H]

(a) the proposed transmitter location, and the radials along which profile graphs have been prepared;

(b) the 3.16 mV/m and 1 mV/m predicted contours; and

(c) the legal boundaries of the principal community to be served.

17. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 1107(land) sq. km. Population 36,762

18. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

[DNA]

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.

19. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.313)*

Source of terrain data: *(check only one box below)*

☐ Linearly interpolated 30-second database ■ 7.5 minute topographic map

(Source: _____)

☐ Other *(briefly summarize)*

Maps Used in Presentation

Exhibit G – Selbyville DE 38075-D2
Exhibit H – Salisbury MD 1.250,000 38074-A1
Radial Computations – MD/DE Series 380785 7.5" B,C,D,E. 1,2,3,4.

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 5)

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances	
		To the 3.16 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
**090.	102.8	13.9	24.5
000.	99.4	12.5	22.2
045	102.5	13.4	23.7
090	102.8	13.9	24.5
135	102.8	13.9	24.5
180	102.5	13.8	24.4
225	96.7	12.9	22.8
270	96.7	12.3	21.8
315	96.7	12.2	21.7

*Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

20. Environmental Statement *(See 47 C.F.R. Section 1.1301 et seq.)*

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact? ☐ Yes ■ No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311. Ex. No. E

If No, explain briefly why not.

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name *(Typed or Printed)* D.B. Williamson P.E	Relationship to Applicant *(e.g., Consulting Engineer)* Consulting Engineer
Signature D.B. Williamson	Address *(Include ZIP Code)* P.O. Box 246 Queenstown MD 21658-0246
Date May 10, 1992	Telephone No. *(Include Area Code)* ( ) 410-827-7431

Radio Station NEW
Ocean City MD.

Engineering Data

In Support of Application for

a New Station

Proposed Operation

Channel - 295A (106.9 mhz.)
Max. Power - 3 Kw. (DA) EHAAT 100.0m.

Authority - MM 89-578
Authority - MM 92-64

(Issue 4a 25/04/92)

Prepared by

CAN-AM CONSULTANTS LTD.
Engineering Services From Florida to the Arctic Circle
P.O. Box 246 Queenstown MD USA 21658-0246

CAN-AM CONSULTANTS LTD.
Engineering Services From Florida to the Arctic Circle

INDEX.

Client : Wind n' Sea FM
Limited Partnership
NEW Ocean City MD.

(1) Introduction.

The following Engineering Data has been prepared in support of an application by Wind n' Sea FM Limited Partnership for authority to establish a new FM (Sound) Broadcasting Station at Ocean City MD in compliance with FCC Dockett MM 89-578. This submission also complies with the requirements of Dockett MM 92-64. In order to accomplish this end, the transmitter site, transmitter, antenna, and transmission line must be established and installed as described in this report. A complete study, coverage maps, a directional antenna design, and pertinent information as required under the rules is included. It is shown that the proposal meets all requirements of current FCC Rules. The study also illustrates that no other station on the same channel or stations on adjacent channels will be precluded from upgrading facilities should this proposal be approved. The study shows, also, that existing stations, assignments, or allocations are presently limited to present operating parameters by existing conditions.

Negotiations with the FAA regarding the site chosen for the December 20/91 application have resulted in the following decision by the FAA.

(a) The site on Lot 1 Cathell Rd. was ruled to be a Hazard to Air Navigation as shown by Aeronautical study 91-AEA-0453-OE.

(b) The FAA require further study to present a detailed case of the situation.

The applicant has decided to change transmitter site to a location which allready has FAA clearances.

The area in this district of Maryland is environmentally sensitive and there is no workable site available within the confines of the exact co-ordinates as specified in the Dockett, i.e. 38-20-00, 75-05-18. (The printed 30-20-00 latitude shown in the Report & Order is obviously a misprint.) The proposed site has been chosen to provide proper protected spacings, FAA clearance due to Ocean City Airport, local zoning restrictions, and 73.315 requirements. Due to the critical spacings to co-channel & adjacent channel stations, a detailed analysis is provided as part of this report. The spacing study, updated to conform with MM88-375 shows some short spaced allocations notably 294A N. Cape May NJ, 295C WAFX Suffolk VA, 296A WQMR Federalsburg MD, and 295B WKDN Camden NJ. All except WQMR are allowable under HDO MM Dockett 92-64. The subject of interference to WQMR is covered under Section 3 of this report. 73.213 (c)(1) applies to all separations except WQMR Federalsburg.

Spacing Studies included in this report were obtained from commercial database services. Can-Am Consultants Ltd. believes this information to be correct and accurate. However, the Company accepts no responsibility for incorrect or incomplete information from these sources.

Client : WIND N' SEA
Location : Ocean City MD
Class A FM Channel Study
Channel : 295A Location : 38-22-52N 75-10-32W Incl. Translators.
Data Source : FCC.
Reference : MM88-375 pge 11.

Call Sign / Status	City/State / File	Channel / Class	ERP kw / HAAT	Location	Brg. To/Frm	Dist. km.	Req'd km.
NEW	Margate Cty NJ	241	3.0Ci	39-16-13	027.2	111.4	10.
CP	BPH870922MT	A	68.9m	74-35-02	207.2	+101.4	OK
WHUR	Washington DC	242	24.0	38-57-01	291.5	177.0	15.
Lic.	BLH5867	B	204.2m	77-04-47	111.5	+162.0	OK
WFMV	Blairstown NJ	292	0.34Ci	41-02-51	003.3	297.0	31.
Lic	BLH840214AC	A	262.1m	74-58-22	183.3	+266.0	OK
WHTG	Eatontown NJ	292	3.0Cl	40-16-10	023.9	230.4	31.
Lic	BLH4841	A	53.3m	74-04-19	203.9	+199.4	OK
WHTG	Eatontown NJ	292	3.0Ci	40-16-10	023.9	230.4	31.
CP	BPH861031IE	A	70.7m	74-04-19	203.9	+199.4	OK
WSLT	Ocean Cty NJ	292	3.0Ci	39-13-40	024.3	103.4	31.
Lic	BLH870622KC	A	94.5m	74-40-57	204.3	+72.4	OK
WCEM	Cambridge MD	292	3.0Ci	38-35-02	286.2	82.1	31.
Lic	BLH6674	A	91.4m	76-04-56	106.2	+51.1	OK
W292AD	Riverdale Md	292	0.01H	38-57-15	293.5	163.6	**
CP	BPFT454	D	30.5m	76-54-42	113.5	**	**
W292CF	Dover DE	292	0.01H	39-09-28	340.7	91.6	**
Lic	BLFT860614TP	D	22.9m	75-31-38	160.7	**	**
NEW	Pocomoke Cty MD	293	3.0Ci	38-04-30	225.5	48.4	31.
Alloc	D80-90	A	100.0m	75-34-12	045.5	+17.4	OK

Client : WIND N' SEA
Location : Ocean City MD
Class A FM Channel Study
Channel : 295A Location : 38-22-52N 75-10-32W Incl. Translators.
Data Source : FCC.
Reference : MM88-375 pge 11.

Call Sign Status	City/State File	Channel Class	ERP kw HAAT	Location	Brg. To/Frm	Dist. km.	Req'd km.
NEW	Pocomoke Cty	293	3.0Ci	37-58-38	215.7	55.2	31.
Appl	BPH880714NW	A	100.0m	75-32-36	035.7	+24.2	OK
WWMX	Baltimore MD	293	7.4Ci	39-20-10	310.2	166.0	69.
Lic	BLH870909KC	B	370.9m	76-38-59	130.2	+97.0	OK
NEW	N. Cape May NJ	294	3.0Ci	38-58-11	016.2	68.2	72.
PAdd	D84-231	A	100.0m	74-57-20	196.2	-3.8	NO.*
NEW	N. Cape May NJ	294	3.0Ci	38-57-32	018.8	67.9	72.
Appl.	BPH880727MC	A	100.0m	74-55-23	198.8	-4.1	NO.*
WJFK	Manassas VA	294	22.4CD	38-52-28	287.8	186.2	113.
Lic	BLH840329AA	B	222.5m	77-13-24	107.8	+73.2	OK
WRKZ	Hershey PA	294	47.3Ci	40-10-16	328.9	233.6	113.
Lic	BLH840921BY	B	150.6m	76-35-50	148.9	+120.6	OK
WRKZ	Hershey PA	294	14.0Ci	40-10-16	328.9	233.6	113.
CP	BPH861217IA	B	282.9m	76-35-50	148.9	+120.6	OK
WKDN	Camden NJ	295	38.0Ci	39-54-33	002.2	170.0	178.
Lic.	BLH790119AC	B	167.6m	75-06-00	182.2	-8.0	NO*
WARX	Hagerstown MD	295	15.4Ci	39-29-43	301.2	244.4	178.
Lic	BLH840605CK	B	260.3m	77-36-42	121.2	+66.4	OK

Call Sign Status	City/State File	Channel Class	ERP kw HAAT	Location	Brg. To/Frm	Dist. km.	Req'd km.
Client : WIND N' SEA							
Location : Ocean City MD							
Class A FM Channel Study							
Channel : 295A Location :				38-22-52N	75-10-32W	Incl. Translators.	
Data Source : FCC.							
Reference : MM88-375 pge 11.							
WAFX	Suffolk VA	295	100.0Ci	36-48-16	218.9	223.8	226.
Appl	BMPH880325IB	C	385.8m	76-45-17	023.9	-2.2	NO.*
WQMR	Federalsburg MD	296	3.86Ci	38-46-02	311.1	65.6	72.
Lic	BLH870227IY	A	124.1m	75-44-45	131.1	-6.4	NO.*
W296AB	Hanover PA	296	0.01H	39-51-22	315.5	224.3	**
Lic.	BLFT800516ID	D	30.5m	76-56-59	135.5	**	**
WRQX	Washington DC	297	36.0Ci	38-57-01	291.5	177.0	69.
Lic.	BLH791012AB	B	179.8m	77-04-47	111.1	+108.0	OK
NEW	Atlantic Cty NJ	297	25.0Ci	39-21-06	029.8	124.6	48.
Alloc	D80-90	B1	100.0m	74-27-24	209.8	+76.6	OK
NEW	Atlantic Cty NJ	297	25.0Ci	39-23-57	031.3	132.9	48.
Appl	BPH870827MK	B1	100.0m	74-22-19	211.3	+84.9	OK
Note: There are 20 applications for this channel. Only closest shown.							
WKRE	Exmore VA	298	50.0Ci	37-31-46	214.5	114.6	69.
Lic.	BLH7464	B	79.2m	75-54-44	034.5	+45.6	OK
WBYO	Boyertown PA	298	30.0CiD	40-24-15	349.8	228.7	69.
Lic	BLH7814	B	185.9m	75-39-09	169.8	+159.7	OK

>>>>>>>>>>>>>>>>>>>>>>>>End of copy 0354 41592 >>>>>>>Chge 9987>>>>>>>

(3) Interference Study. (Exhibit C)

A complete study was made using the proposed NEW site and the required spacings to co-channel, adjacent channel assignments, allocations and operating stations. The granting of A status to Channel 295 at Ocean City MD. would not preclude the upgrading of any other licensed facility, proposed facility or allocation, which is not already precluded, to next higher class. Station WQMR Federalsburg MD was granted an increase in power to 6 kw. This operation is protected from interference as shown by the analysis which follows. The new 294A allocation at N. Cape May NJ. shown on the database, is restricted to Class A 3 kw status by adjacent channel 295B at WKDN Camden NJ. The proposed spacing from Cape May to WKDN is 105.2 km., which is short of the 113 km required for 6 kw operation by 7.8 km. For proper spacing the site would be located in the Atlantic Ocean.

(3) (a) Special Considerations to WQMR Federalsburg MD.

Station : WQMR Federalsburg MD
Channel : 296A (107.1 mhz.) Power : 3.86 kw EHAAT : 124.1m.

Table (1). WQMR Contour Locations.

Brg (deg)	ERP (kw)	DBK	EHAAT (m)	Distance to Contours (km) 60 dbu (50/50)	54 dbu (50/10)
000	3.86	5.87	121.1	27.9	42.9
045	3.86	5.87	123.1	28.2	43.1
090	3.86	5.87	123.3	28.2	43.3
135	3.86	5.87	124.8	28.3	43.6
180	3.86	5.87	125.4	28.4	43.8
225	3.86	5.87	125.2	28.4	43.7
270	3.86	5.87	124.5	28.3	43.6
315	3.86	5.87	124.5	28.3	43.6

3(b).
Station : NEW Ocean City MD
Channel : 295A (106.9 mhz.) Power : 3.0 kw (max) EHAAT : 100.0 m.

Table (2). NEW Contour Locations.

Brg (deg)	ERP (kw)	DBK	EHAAT (m)	Distance to Contours (km) 60 dbu (50/50)	54 dbu (50/10)
000	2.101	3.224	099.4	22.2	33.4
045	2.597	4.144	102.5	23.7	35.8
090	2.977	4.738	102.8	24.5	37.2
135	2.998	4.769	102.8	24.5	37.2
180	2.952	4.701	102.5	24.4	37.1
225	2.498	3.976	096.7	22.8	34.4
270	2.064	3.147	096.7	21.8	32.8
315	2.010	3.033	096.7	21.7	32.3

3.(c) Minimum Spacing Between Interference Contours.

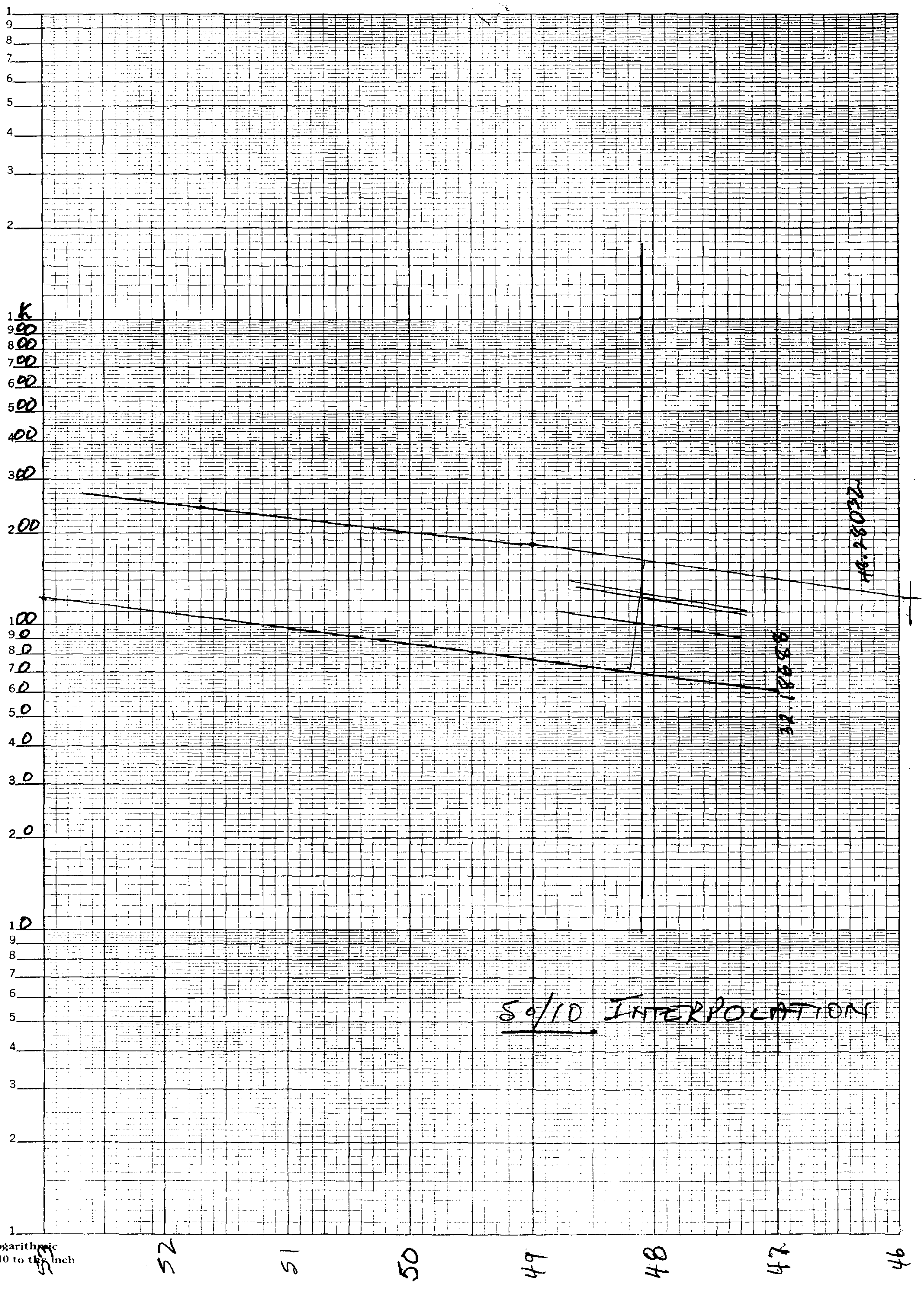
WQMR - 38-46-02N 75-44-45W
NEW - 38-22-52N 75-10-32W

Spacing - 65.58 km. Brg @ NEW - 311.07^0 Brg @ WQMR - 131.07^0

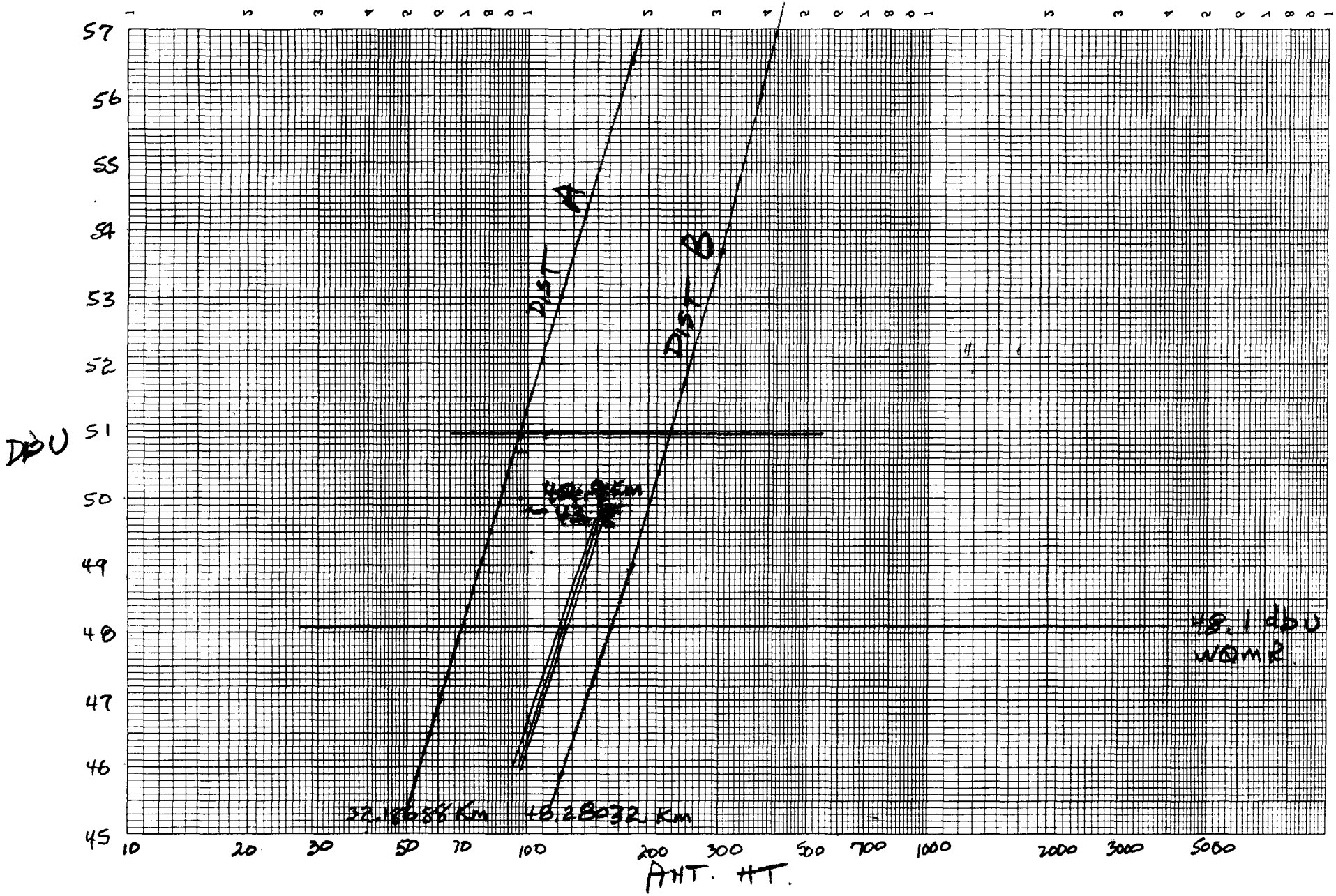
WQMR (50/50) 60 dbu @ 28.3 km NEW (50/10) 54 dbu @ 32.3 km
Spacing - 65.58 - 28.3 - 32.3 = 4.98 km.

NEW (50/50) 60 dbu @ 21.7 km WQMR (50/10) 54 dbu @ 43.5 km
Spacing - 65.58 -21.7 - 43.5 = 0.38 km.

NATIONAL 12-184



Semi-Logarithmic
4 Cycles x 10 to the inch



CLEARPRINT PAPER CO. NO. C312. 50 DIVISIONS PER INCH (150 DIVISIONS) BY 3 3-INCH CYCLES RATIO RULING PRINTED IN U.S.A. ON CLEARPRINT TECHNICAL PAPER NO. 1015

Exhibit D.

(4) Interference To Other Services.

Within the principle city contour of the proposed station there are located a number of Public Service stations operated by the County Emergency Management group, the Maryland Natural Resources Patrol and the State Police. The various operating frequencies have already been programmed into a computerized intermodulation study for NEW. NEW should not generate interference with existing services.

The applicant Partnership is aware of the requirements imposed under Sections 73.315, 73.316, and 73.318 of the Rules, and if this application is granted, the Applicant will accept responsibility, in accordance with the Rules, for the servicing of complaints of interference caused by the incoming service.

Exhibit E.

(5) Radio Frequency Environmental Assessment.

Wind 'n Sea FM Limited Partnership proposes to construct a new FM facility near the Town of Ocean Pines MD. The project is subject to the rules of the Federal Communications Commission and the Federal Aviation Administration. The site is located within the County of Worcester corporate limits and is adjacent to a private access road which borders the site. No additional access roads are therefore required.

The proposed construction of transmission facilities will in no way impact the present community services. The proposal meets safety requirements of OSHA in that the power density proposed is well below the maximum permissible OSHA level of 10 mw/cm^2. In addition the lower bay of the new antenna will be 90m above ground level or at least 70.m above the worst case ANSI minimums as specified in the bulletins. The base of the antenna will be fenced to an extent well beyond that which considered necessary by the regulation. In addition, the property is not used by the public and the nature of the land and prominent warning signs make trespassing unlikely beyond the limits of protective fencing.

To protect authorized personnel from exposure to unwanted radiation, it will be the policy of the operators to reduce the transmitter to low power when personnel are on the tower and to shut down completely if any work is required within 20 meters of the antenna aperture.

The presence of the proposed tower will not be the subject of controversy in the community. The antenna location is not located near any property listed in the National Register of Historic Places or in a local or state version therof; in the National Register of National Landmarks; or in an area of study in the National Wilderness Preservation Act or in the Wild and Scenic Rivers Act. The construction and operation of the proposed facility have had no effect on any species identified on the Endangered Species List. The project will not create or precipitate any identifiable long term changes in the diversity of animal species, the population density of any animal species, or change the behavior patterns of any animal population.

Exhibit 6. Environmental (Continued).

The proposal will not utilize any unusally fragile environmental area. The proposed tower will require no changes to the contour of the surface land nor will any change occur to surface water turbidity. The project will not cause or precipitate any identifiable long term changes in the diversity of plant species, or in the population density of an individual native spcies of plants.

In summary, the proposal will have no special environmental significance. There should be no further effect on scenic, cultural, historic, architectural, archeological, or recreational uses of surrounding lands, beyond that now being experienced. There will be no deforestation, water diversion, wetland fill, or other extensive change of surface features. The proposal will not create, directly or indirectly, a permanent environmental change to animals, plants, land, or humans.

References.

Federal Communications Commission
1919 M Street NW
Washington DC 20554
Chief Mass Media Bureau.

Federal Aviation Administration
Eastern Region
JFK International A/P
Fitzgerald Federal Bldg.,
Jamaica NY 11430

D.B. Williamson P.E.
Consulting Engineer for
Wind 'n Sea FM Partnership

December 20/90.
Updated 3/15/91
Updated 7/10/91
Updated 4/15/92

(6) System Description.

(a) Antenna. The antenna system proposed will be manufactured by Electronics Research Industries and will bear Continental Electronics designation G5CPM-2AE-DA-HW The antenna will consist of two, half wave spaced bays, circularly polarized, fed at the end with 1 5/8" Heliax type air filled transmission line. The antenna is known in the trade as the "Rototiller". The antenna will be directional on centred on True bearing 131.4 degrees. The antenna power gain is to be 1.00 (0 db.) in vertical & horizontal planes. The antenna will be side mounted on the tower with the electrical centre 96.7m AGL, 102.8m AMSL. The electrical centre will be 100.0m AAT. A complete description of this antenna together with radiation patterns is included as Appendix to this report.

(7) Summary.

Channel - 295A Frequency - 106.9 mhz.

Co-ordinates - 38-22-52 N 75-10-32 W

Transmitter - Type accepted.

Transmission Line - 125m Andrew HJ7-50B Heliax cable or equivalent.
(Attenuation - 0.605 db/100m)

Antenna - Continental G5CPM-2AE-DA-HW

Tower - 121.9m AGL 128.0m AMSL overall height.

Radiating Centre - 96.7m AGL 100.0m AAT
102.8m AMSL

ERP - (Maximum)

Tx pwr out	3.5707	kw.	5.5275	dbk.
Line loss	- 0.5707	kw.	-0.7563	db.
Antenna Pwr in	3.0000	kw.	4.7712	dbk.
Antenna Gain (max)	x 1.0000		0.0000	db
ERP(max)	3.0000	kw.	4.7712	dbk.

Wind n' Sea FM Limited
Partnership
NEW Ocean City MD.

(8) Tabulation of Proposed Service Contours.

(a) Proposed Operation.

Azimuth (deg)	HAAT (m)	ERP (kw)	Dist. to 70 dbu. (km)	Dist. to 60 dbu. (km)
000	99.4	2.101	12.5	22.2
045	102.5	2.597	13.4	23.7
090	102.8	2.977	13.9	24.5
135	102.8	2.998	13.9	24.5
180	102.5	2.952	13.8	24.4
225	96.7	2.498	12.9	22.8
270	96.7	2.064	12.3	21.8
315	96.7	2.010	12.2	21.7
Average	100.0			

Maximum ERP - 3.00 kw @ 110^0 & 150^0 True.

Average Terrain Elevation	2.8m
Radiating Centre AAT	100.0m
Radiating Centre AMSL	102.8m
Radiating Centre AGL	96.7m
Ground Elevation	6.1m.

(9) Saturation Effects. (Exhibit F).

The location of the transmitter places a high radio field over considerable territory. The Applicant is a responsible broadcaster, well acquainted with the needs of the community. Should listener problems, or other problems with existing communications services occur; due to cross modulation or receiver overloading attributed to the incomming service; these will be serviced by the station in accordance with the requirements of Section 73.318 of the Rules.

(10) Population Density Figures.

	70dbu	60 dbu.
Proposed Operation	492 km^2	1691 km^2
Land Area.	344 km^2	1107 km^2
	10,107 Persons	36,762 Persons.

Population updated from best available statistics 5/92.

Note : Population information for full year residence - Source C of C.
Increase in population during Summer months approximately 10 times.